

ICT

1

Lesson preparation book

prep1

Second term



Teacher 's Biography

Name:

School:

The educational administration:

Qualification:

Teaching Subject:

Comprehensive School:

The school to which he is delegated:

Date of appointment:

The job is on the staff:

Teacher Code:

Mobile Number:

Teacher

Supervisor

School Principal

Daily class schedule

Session Day	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eightieth	Ninth
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

Session Day	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eightieth	Ninth
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

Teacher

Supervisor

School Principal

General objectives of the subject of Computer Science and Information and Communication Technology

At the end of the second term the student will be able to :

- **Understanding** the concept of artificial intelligence and its impact on our lives.
- **Understand** the uses and types of sensors.
- **Definition** of the concept of robotics.
- **Realizing** the importance of programming languages.
- **Explain** the types of sensors and robots.
- **Learn** how to use Scratch.
- **Gaining** the skill of dealing with programming languages.
- **Explanation** of the concept of the Python programming language.
- **Use** of robotics and sensor technologies.
- **Learn** the basics of the Python programming language.

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Specific objectives of the subject of Computer Science and Information and Communication Technology

At the end of the second term the student will be able to:

- **Review** some practical applications of artificial intelligence.
- **List** the types of artificial intelligence.
- **Suggest** the largest number of ideas for the uses of artificial intelligence in our lives.
- **Mention** the different types of sensors and their areas of use.
- **Design** a simple project based on the idea of sensors.
- **Explains** Robot concept.
- **Count** Types of robots and their functions.
- **Suggest** the largest number of ideas for the uses of robots in our lives.
- **Explain** Uses of Scratch.
- **Used** Scratch program In a small project.
- **Discuss** The concept of the object area in Scratch.
- **Create** Simple Scratch Project.
- **Develop** Project "adds - deletes - modifies" objects on the project.
- **Explain** Python programming language concept.
- **Count** Uses of Python.
- **Practice** Steps to download Python language to the device.
- **Explain** Concept of changes.
- **Conclude** Types of variables.
- **Write** Simple Python Programming Code.

Teacher

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Distribution of computer and information technology content
For 3rd.Prep 2025 / 2026 - Second Term

MONTH	week	DATE	TOPIC	Evaluations
February 2025	1	8/2/2025	Artificial Intelligence Applications	وفقا لقرار ١٣٧ يتم عمل اختبار أسبوعي واختبار شهري ١
	2	15/2/2025	Sensors	
	3	22/2/2025	Robot	
March 2025	4	1/3/2025	Scratch	
	5	8/3/2025	Scratch	
	6	15/3/2025	Sprites Area in Scratch	
	7	22/3/2025	Sprites Area in Scratch	
	8	29/3/2025	Sprites Area in Scratch	
April 2025	9	5/4/2025	Principles of Python	عيد الفطر اختبار اسبوعي اختبار شهر 2 عيد العمال وتحري سيناء
	10	12/4/2025	Principles of Python	
	11	19/4/2025	Principles of Python	
	12	26/4/2025	Principles of Python	
May2025	13	3/5/2025	REVISION - Practical Exam	
	14	10/5/2025		

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Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	1	Artificial intelligence Applications

Introduction / How has artificial intelligence helped us improve services in life?

Lesson objectives/ Suggest the largest number of ideas for the uses of artificial intelligence in our lives.

-Lists types of artificial intelligence.

- Review some practical applications of .artificial intelligence.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Technologically aware Work Values: Cooperation Global Issues: Confronting global challenges through digital	Electronic board - book-presentation		☐ Brainstorming ☐ Problem Solving ☐ Dialogue and discussion		With the help of your teacher, suggest new ideas for using artificial intelligence in our lives.*	Using PowerPoint, design an advertising poster that illustrates the most important applications of artificial intelligence.	Solve the book's questions :
Weekly Assessment				Put (✓) Or(x):- Artificial intelligence is a branch of computer science()			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	2-1	Sensors

Introduction / How do sensors work?

Lesson objectives/ Mention the different types of sensors and their areas of use.

- **list** The importance of sensors in our modern life.

- **Design** a simple project based on the idea of sensors.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Work values Work Values: Cooperation Global Issues: Research exploration	Electronic board-book-presentation -cards for some sensors		☐ Collaborative Learning ☐ Dialogue and discussion		In cooperation with your classmates, design a project based on the idea of sensing devices.	Using Microsoft Word, write the steps for how sensing devices work.	Solve the book's questions :
Weekly Assessment				complete: The main function of the sensor is.....			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	3	Robots

Introduction / What is a robot? What functions can a robot perform? Explain

Lesson objectives/ Explains the concept of Robot. **-List** Types of robots and their functions.

-suggest the largest number of ideas for the uses of robots in our lives.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject			Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Perseverance Global Issues: Keeping up with the development of operating systems globally	Electronic board-book-presentation		☐ Problem Solving ☐ Dialogue and discussion				Design a cartoon robot and try to add some of the components you have studied	Create a poster illustrating the types of robots and their uses	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- The areas of use of robots include industry, healthcare, and education ()					

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	4	Scratch

Introduction / What is Scratch? Suggest some simple projects where Scratch can be used.

Lesson objectives/ Explain Uses of Scratch. **-Deduce** the features of the Scratch program. **-Use** Scratch program to create a small project.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be : Work values Work Values: Exploration Global Issues: Facilitating the global use of technology	Electronic board-book-presentation - Scratch program		☐ practical training ☐ Dialogue and discussion		Using Scratch, create a small project (of your choice).	Using Scratch, create a small project (of your choice).	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- In the Scratch program, the student needs to write a lot of complex codes()			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	4-2	Scratch

Introduction / What is Scratch? Suggest some simple projects where Scratch can be used.

Lesson objectives/ Explain Uses of Scratch. -Deduce the features of the Scratch program. -Use Scratch program to create a small project.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Cooperation Global Issues: Keeping up with the development of devices and software	Electronic board-book-presentation - Scratch program		☐ practical training ☐ Dialogue and discussion		sing Scratch, create a small project (of your choice)	On your device, change the program's interface language.	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- In Scratch, students have difficulty sharing projects with others ()			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	5	Sprites Area in Scratch

Introduction / How can you set up a simple project on Scratch?

Lesson objectives/

-Discuss The concept of the object area in Scratch. **-Creates** Simple Scratch Project. **-Develops** Project "adds - deletes -. modifies" objects on the project.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject			Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Cooperation Global Issues: Participation in the digital world	Electronic board-book-presentation - Scratch program		☐ practical training ☐ Dialogue and discussion				Add a new object to your previous project.	Follow the steps to add an object to your project.	Solve the book's questions
Weekly Assessment				Put (✓) Or(x):- Start command is used to stop the project ()					

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	6	Principles of Python

Introduction / What is the Python programming language?

objectives Lesson/

- Explains Python programming language concept. **-List** the uses of the Python language. **-Practice** Steps to download Python language to the device.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Cooperation Global Issues: Participation in the digital world - Electronic board-book-presentation			☐ brainstorming ☐ Dialogue and discussion		Design an advertising poster that highlights the features of the Python language	On your device, install the Python language	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- Python is one of the most difficult programming languages ()			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	6-2	Principles of Python

Introduction / What is the Python programming language?

Lesson objectives/

- **Explains** Python programming language concept. -**List** the uses of the Python language. -**Practice** Steps to download Python language to the device.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Cooperation Global Issues: Participation in the digital world	Electronic board-book-presentation		☐ brainstorming ☐ Dialogue and discussion		Design an advertising poster that highlights the features of the Python language	On your device, install the Python language	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- Python is one of the most difficult programming languages ()			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	7	Variables in Python

Introduction / What are variables in programming languages?

Lesson objectives/- Explains Concept of variables.

-Deduce the types of variables.

-write Simple programing Code in python.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Cooperation Global Issues: Participation in the digital world - Electronic board-book-presentation			☐ Practical Training ☐ Dialogue and discussion		Based on your understanding of variables, prepare simple Python programming codes.	With the help of your teacher, write a simple code using Python	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- The variable name must not begin with a letter or an underscore ()			

Grade	Class	Date	Period	Term	Lesson	Lesson Title
PREP 1				Second	7-2	Variables in Python

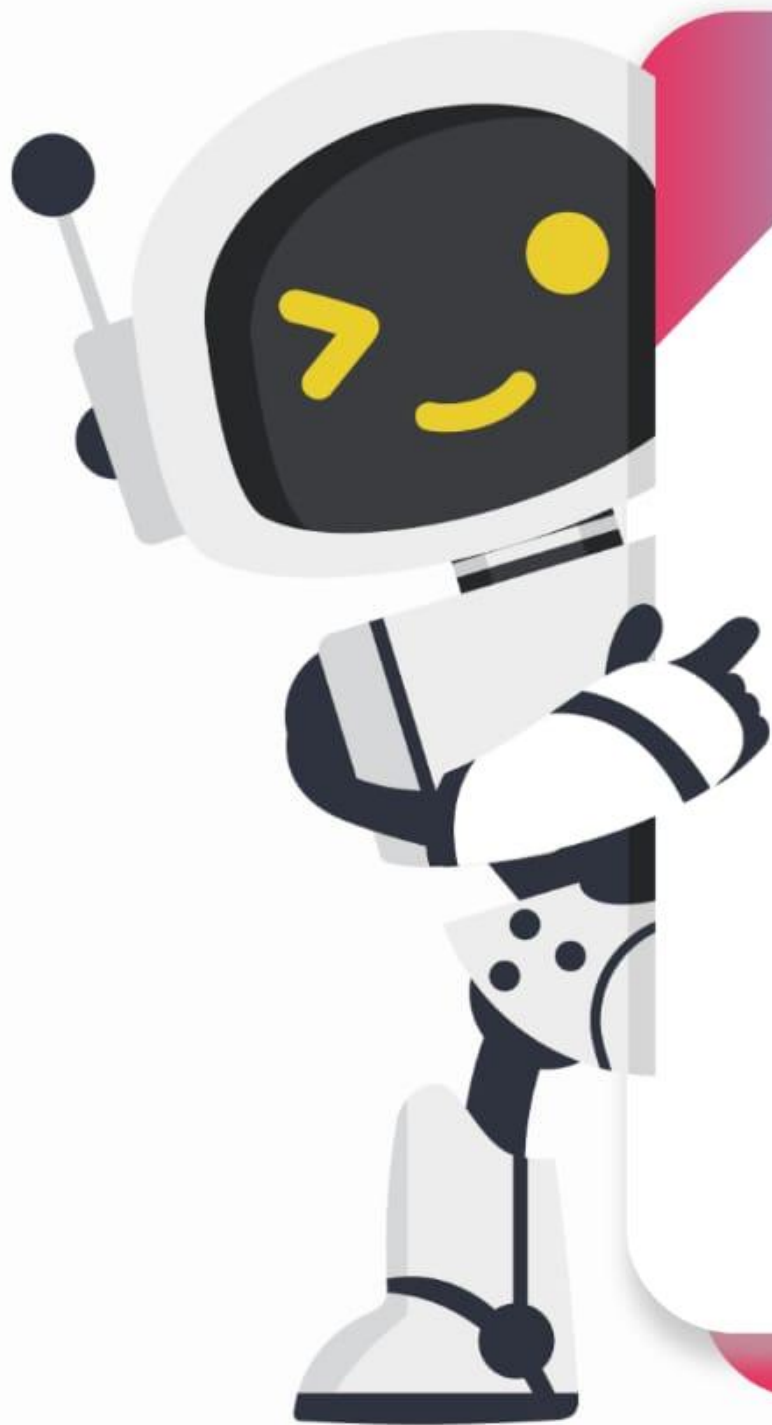
Introduction / What are variables in programming languages?

Lesson objectives/- Explains Concept of variables.

-Deduce the types of variables.

-write Simple programing Code in python.

Skills, values and issues covered in the lesson	Teaching Aids	Assistive technology for integration students if available	Teaching strategies	Subject	Educational activities	Formative assessment	Evaluation
Learning to Be: Technological awareness Work Values: Cooperation Global Issues: Participation in the digital world - Electronic board-book-presentation			☐ Practical Training ☐ Dialogue and discussion		Based on your understanding of variables, prepare simple Python programming codes.	With the help of your teacher, write a simple code using Python	Solve the book's questions
Weekly Assessment				Put (√) Or(x):- To know the type of a variable, we do not need to use the type () function ()			



Practical File

Lesson title	Practical applications	Pages
Lesson 1: Artificial Intelligence Applications	Create intelligent models to recognize images, sounds, and movements using machine .learning	
Lesson 2 Scratch program	Change the program interface language Project	
Continue to Lesson4 Scratch program	Edit Project(1)	
Continue to Lesson5-2 Sprites Area in Scratch	Project(2)	
Follow Lesson 6 Principles of Python	How to download the program from the official website	